MCHR1 antagonist 2

Cat. No.: HY-100321

CAS No.: 863115-70-2

Molecular Formula: $C_{23}H_{21}FN_2O_5$

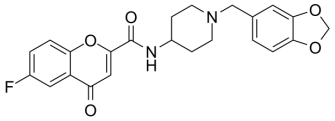
Molecular Weight: 424.42

Target: MCHR1 (GPR24); Potassium Channel

Pathway: GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (23.56 mM; ultrasonic and adjust pH to 6 with HCl)

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	2.3562 mL	11.7808 mL	23.5616 mL
5 mM	0.4712 mL	2.3562 mL	4.7123 mL
10 mM	0.2356 mL	1.1781 mL	2.3562 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1 mg/mL (2.36 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (2.36 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (2.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

MCHR1 antagonist 2 is an antagonist of melanin concentrating hormone receptor 1, with an IC_{50} of 65 nM; MCHR1 antagonist 2 also inhibits hERG, with an IC_{50} of 4.0 nM in IMR-32 cells[1].

IC_{50} & Target

IC50: 65 nM (melanin concentrating hormone receptor 1), 4.0 nM (hERG in IMR-32 cells)[1]

In Vitro

MCHR1 antagonist 2 (Compound 30) is an antagonist of melanin concentrating hormone receptor 1, with an IC_{50} of 65 nM. MCHR1 antagonist 2 has inhibitory effects on Ca^{2+} flux, and hERG, with IC_{50}s of 196 ± 30 nM and 4.0 ± 0.8 nM, respectively, in

IMR-32 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lynch JK, et al. Optimization of chromone-2-carboxamide melanin concentrating hormone receptor 1 antagonists: assessment of potency, efficacy, and cardiovascular safety. J Med Chem. 2006 Nov 2;49(22):6569-84.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA